BRUHAT BANAGLORE MAHANAGARA PALIKE

Executive Engineer -yelahanka Division

Detailed Estimate

Name of the Work — **Asphalting to Roads and improvements to drains in Akshayanagara 1st Main and 1st, 2nd, 3rd and 4th cross roads of Attur ward no.03**

Estimate Amount : 5000000.00

Sl. No.	Description of item	Unit	Nos	Dimension L in m	B in m	D in m	Total Qty	Rate in Rs	Amount in Rs
	CIVIL WORKS								
1	Removing & Refixing Stone Slabs of drains and Pointing in C.M(1:3).								
	(Page No 25., I.No.5.33 of KPWD S.R 2016-17)								
		Sqm							
	Basic rate	***76.00***							
	Area Wieght age @ 6%	***4.56***							
	Total Rate in Rs	***80.56***							
	Thirumalanagar main road from Akshayanagar main road to dead end								
	Ch: (0 - 110)		2	110	0.75		165.00		
	1st Cross road from thirumala nagar main road to dead end								
	Ch: (0 - 38)		2	38	0.75		57.00		
	2nd Cross akshayanagara from Akshayanagara main road to dead end								
	Ch: (0 - 67)		2	15	0.90		27.00		
	4th Cross Akshayanagara from Akshaynagara Main road to dead end								
	Ch: (0 - 67)		1	49	0.90		44.10		
	Ch: (0 - 67)		1	67	0.75		50.25		
	5th Cross Akshayanagar from Akshayanagar main road to dead end								
	Ch: (0 - 68)		2	68	0.90		122.40		
	6th cross akshayanagara from Akshayanagar main road to dead end								
	Ch: (0 - 67)		2	20	0.90		36.00		
	7th Cross Akshayanagara from Akshayanagara Main road to dead end								
	Ch: (0 - 83)		2	83	0.75		124.50		
							626.25		
	Deduction for damaged and open 40%						**-250.50**		
							375.75	**80.56**	**30270.42**
2	KSRRB 300-1. Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 1.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications. MORTH / Chapter 3 **(Page No142., I.No.19.1 of KPWD S.R 2016-17).**								
		Cum.							
	Basic rate	***82.00***							
	Area Wieght age @ 6%	***4.92***							
	Total Rate in Rs	***86.92***							
	Desilting								
	Thirumalanagar main road from Akshayanagar main road to dead end								
	Ch: (0 - 110)		2	110	0.60	0.400	52.80		
	1st Cross road from thirumala nagar main road to dead end								
	Ch: (0 - 38)		2	38	0.60	0.500	22.80		
	2nd Cross akshayanagara from Akshayanagara main road to dead end								
	Ch: (0 - 67)		2	67	0.60	0.500	40.20		
	4th Cross Akshayanagara from Akshaynagara Main road to dead end								
	Ch: (0 - 67)		2	67	0.60	0.500	40.20		

Sl. No.	Description of item	Unit	Nos	Dimension			Total Qty	Rate in Rs	Amount in Rs
				L in m	B in m	D in m			
	5th Cross Akshayanagar from Akshayanagar main road to dead end								
	Ch: (0 - 68)		2	68	0.60	0.500	40.80		
	6th cross akshayanagara from Akshayanagar main road to dead end								
	Ch: (0 - 67)		2	67	0.60	0.500	40.20		
	7th Cross Akshayanagara from Akshayanagara Main road to dead end								
	Ch: (0 - 83)		2	83	0.60	0.500	49.80		
							286.80	**86.92**	**24928.66**
3	Providing granite slabs of selected quality roughly dressed and fixed in cement mortar (1:6) including fixing curing etc., complete. 10cm thick								
	Data rate								
		Sqm							
	Total Rate in Rs	*779.00*							
	Area Wieght age @ 6%	*46.74*							
	Total Rate in Rs	*825.74*							
	for damaged drain						250.50		
							250.50	**825.74**	**206847.87**
	Sub total-1								**262046.95**
	ROAD WORKS								
4	KSRRB M300-14. Excavation for roadwork in all type of soil with hydraulic excavator of 0.9 cum bucket capacity including cutting and loading in tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transporting to the embankment location to a lead of 1.00 km and complete as per specifications. MORTH Specification No.301								
	(Page No 143., I.No.19.14 of KPWD S.R 2016-17).								
		Cum.							
	Basic rate	*46.00*							
	Area Wieght age @ 6%	*2.76*							
	Total Rate in Rs	*48.76*							
	new contruction								
	Thirumalanagar main road from Akshayanagar main road to dead end								
	Ch: (0 - 110)		1	110	7.00	0.200	154.00		
	1st Cross road from thirumala nagar main road to dead end								
	Ch: (0 - 38)		1	38	6.00	0.200	45.60		
	2nd Cross akshayanagara from Akshayanagara main road to dead end								
	Ch: (0 - 67)		1	67	6.50	0.300	130.65		
	4th Cross Akshayanagara from Akshaynagara Main road to dead end								
	Ch: (0 - 67)		1	67	6.50	0.300	130.65		
	5th Cross Akshayanagar from Akshayanagar main road to dead end								
	Ch: (0 - 68)		1	68	6.50	0.300	132.60		
	6th cross akshayanagara from Akshayanagar main road to dead end								
	Ch: (0 - 67)		1	67	6.50	0.300	130.65		
	7th Cross Akshayanagara from Akshayanagara Main road to dead end								
	Ch: (0 - 83)		1	83	6.50	0.300	161.85		
							886.00	**48.76**	**43201.36**
5	KSRRB M400-6.1. Construction of granular sub-base by providing close graded material, crushed stone aggregates of granite/trap/basalt material, mixing in a mechaical mix plant at OMC, carriage of mixed material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the desired density, complete as per specifications. A. Plant Mix Method.Close graded granular sub-base material as per 400-1 For Grading- II Material								
	(Page No 155., I.No.20.4.2 of KPWD S.R 2016-17).								
		Cum.							
	Basic rate	*1571.00*							
	Area Wieght age @ 6%	*94.26*							
	Total Rate in Rs	*1665.26*							
	new contruction								

Sl. No.	Description of item	Unit	Nos	Dimension			Total Qty	Rate in Rs	Amount in Rs
				L in m	B in m	D in m			
	Thirumalanagar main road from Akshayanagar main road to dead end								
	Ch: (0 - 110)		1	110	7.00	0.150	115.50		
	1st Cross road from thirumala nagar main road to dead end								
	Ch: (0 - 38)		1	38	6.00	0.150	34.20		
	2nd Cross akshayanagara from Akshayanagara main road to dead end								
	Ch: (0 - 67)		1	67	6.50	0.150	65.33		
	4th Cross Akshayanagara from Akshaynagara Main road to dead end								
	Ch: (0 - 67)		1	67	6.50	0.150	65.33		
	5th Cross Akshayanagar from Akshayanagar main road to dead end								
	Ch: (0 - 68)		1	68	6.50	0.150	66.30		
	6th cross akshayanagara from Akshayanagar main road to dead end								
	Ch: (0 - 67)		1	67	6.50	0.150	65.33		
	7th Cross Akshayanagara from Akshayanagara Main road to dead end								
	Ch: (0 - 83)		1	83	6.50	0.150	80.93		
							492.90	**1665.26**	**820806.65**
6	KSRRB M400-17. Providing, laying, spreading and compacting crushed stone aggregates of granite/trap/basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. MORTH Specification No. 406								
	(Page No 158., I.No.20.18 of KPWD S.R 2016-17).								
		Cum.							
	Basic rate	***1668.00***							
	Area Wieght age @ 6%	***100.08***							
	Total Rate in Rs	***1768.08***							
	new contruction								
	Thirumalanagar main road from Akshayanagar main road to dead end								
	Ch: (0 - 110)		1	110	7.00	0.225	173.25		
	1st Cross road from thirumala nagar main road to dead end								
	Ch: (0 - 38)		1	38	6.00	0.225	51.30		
	2nd Cross akshayanagara from Akshayanagara main road to dead end								
	Ch: (0 - 67)		1	67	6.50	0.225	97.99		
	4th Cross Akshayanagara from Akshaynagara Main road to dead end								
	Ch: (0 - 67)		1	67	6.50	0.225	97.99		
	5th Cross Akshayanagar from Akshayanagar main road to dead end								
	Ch: (0 - 68)		1	68	6.50	0.225	99.45		
	6th cross akshayanagara from Akshayanagar main road to dead end								
	Ch: (0 - 67)		1	67	6.50	0.225	97.99		
	7th Cross Akshayanagara from Akshayanagara Main road to dead end								
	Ch: (0 - 83)		1	83	6.50	0.225	121.39		
							739.35	**1768.08**	**1307229.95**
7	KSRRB M500-6. Providing and applying primer coat with S.S. bitumen emulsion on prepared surface of granular base such as WBM,WMM ,including clearing of road surface and spraying primer at the rate of 0.60 kg / sqm using mechanical means complete as per Specifications. MORTH Specification No. 502								
	(Page No 161., I.No.21.6 of KPWD S.R 2016-17).								
		Sqm							
	Basic rate	***26.00***							
	Area Wieght age @ 6%	***1.56***							
	Total Rate in Rs	***27.56***							
	new contruction								

Sl. No.	Description of item	Unit	Nos	Dimension L in m	B in m	D in m	Total Qty	Rate in Rs	Amount in Rs
	Thirumalanagar main road from Akshayanagar main road to dead end								
	Ch: (0 - 110)		1	110	7.00		770.00		
	1st Cross road from thirumala nagar main road to dead end								
	Ch: (0 - 38)		1	38	6.00		228.00		
	2nd Cross akshayanagara from Akshayanagara main road to dead end								
	Ch: (0 - 67)		1	67	6.50		435.50		
	4th Cross Akshayanagara from Akshaynagara Main road to dead end								
	Ch: (0 - 67)		1	67	6.50		435.50		
	5th Cross Akshayanagar from Akshayanagar main road to dead end								
	Ch: (0 - 68)		1	68	6.50		442.00		
	6th cross akshayanagara from Akshayanagar main road to dead end								
	Ch: (0 - 67)		1	67	6.50		435.50		
	7th Cross Akshayanagara from Akshayanagara Main road to dead end								
	Ch: (0 - 83)		1	83	6.50		539.50		
							3286.00	27.56	90562.16
8	KSRRB 500-7. Providing and applying tack coat using 80/100 grade Bitumen (VG10) on the prepared black topped surfaces at 2.5 kg per 10 sqm , heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH/Chapter 5								
	(Page No 161., I.No.21.7 of KPWD S.R 2016-17).								
	Basic rate	*11.00*							
	Area Wieght age @ 6%	*0.66*							
	Total Rate in Rs	*11.66*							
	new contruction								
	Thirumalanagar main road from Akshayanagar main road to dead end								
	Ch: (0 - 110)		1	110	7.00		770.00		
	1st Cross road from thirumala nagar main road to dead end								
	Ch: (0 - 38)		1	38	6.00		228.00		
	2nd Cross akshayanagara from Akshayanagara main road to dead end								
	Ch: (0 - 67)		1	67	6.50		435.50		
	4th Cross Akshayanagara from Akshaynagara Main road to dead end								
	Ch: (0 - 67)		1	67	6.50		435.50		
	5th Cross Akshayanagar from Akshayanagar main road to dead end								
	Ch: (0 - 68)		1	68	6.50		442.00		
	6th cross akshayanagara from Akshayanagar main road to dead end								
	Ch: (0 - 67)		1	67	6.50		435.50		
	7th Cross Akshayanagara from Akshayanagara Main road to dead end								
	Ch: (0 - 83)		1	83	6.50		539.50		
							3286.00	11.66	38314.76
9	KSRRB M500- 17. Providing, laying dense graded bituminous macadam using 40/60 TPH capacity H.M.P with Mechanical paver Gr-II(50mm to 75mm), crushed aggregates of specified grading premixed with 4.5% VG 30 grade bituminous binder and filler, transporting the hot mix to work site , laying to the required grade,level and alignment, rolling with wheeled , vibratory and tandeem rollers to achieve the desired compaction as per MORTH Table-500-10 including all leads and lift cost of all materials, labour, HOM of machineries complete as per specifications MORTH Specification No.507								
	(Page No 163., I.No.21.17.6 of KPWD S.R 2016-17).								
		Cum.							
	Basic rate	*6071.00*							
	Area Wieght age @ 6%	*364.26*							
	Total Rate in Rs	*6435.26*							

Sl. No.	Description of item	Unit	Nos	Dimension			Total Qty	Rate in Rs	Amount in Rs
				L in m	B in m	D in m			
	new contruction								
	Thirumalanagar main road from Akshayanagar main road to dead end								
	Ch: (0 - 110)		1	110	7.00	0.050	38.50		
	1st Cross road from thirumala nagar main road to dead end								
	Ch: (0 - 38)		1	38	6.00	0.050	11.40		
	2nd Cross akshayanagara from Akshayanagara main road to dead end								
	Ch: (0 - 67)		1	67	6.50	0.050	21.78		
	4th Cross Akshayanagara from Akshaynagara Main road to dead end								
	Ch: (0 - 67)		1	67	6.50	0.050	21.78		
	5th Cross Akshayanagar from Akshayanagar main road to dead end								
	Ch: (0 - 68)		1	68	6.50	0.050	22.10		
	6th cross akshayanagara from Akshayanagar main road to dead end								
	Ch: (0 - 67)		1	67	6.50	0.050	21.78		
	7th Cross Akshayanagara from Akshayanagara Main road to dead end								
	Ch: (0 - 83)		1	83	6.50	0.050	26.98		
							164.30	**6435.26**	**1057313.22**
10	KSRRB M500- 19. Providing, laying bituminousConcrete using 40/60 TPH capacity H.M.P with Mechanical paver Gr-II(30mm to 45mm), crushed aggregates of specified grading premixed with 5.4% VG 30 grade bituminous binder and filler , transporting the hot mix to work site , laying to the required grade,level and alignment, rolling with wheeled , vibratory and tandeem rollers to achieve the desired compaction as per MORTH Table-500.9 including all leads and lift cost of all materials, labour, HOM of machineries complete as per specifications MORTH Specification No.509 **(Page No 165., I.No.21.22.6 of KPWD S.R 2016-17).**								
		Cum.							
	Basic rate	***6859.00***							
	Area Wieght age @ 6%	***411.54***							
	Total Rate in Rs	***7270.54***							
	new contruction								
	Thirumalanagar main road from Akshayanagar main road to dead end								
	Ch: (0 - 110)		1	110	7.00	0.030	23.10		
	1st Cross road from thirumala nagar main road to dead end								
	Ch: (0 - 38)		1	38	6.00	0.030	6.84		
	2nd Cross akshayanagara from Akshayanagara main road to dead end								
	Ch: (0 - 67)		1	67	6.50	0.030	13.07		
	4th Cross Akshayanagara from Akshaynagara Main road to dead end								
	Ch: (0 - 67)		1	67	6.50	0.030	13.07		
	5th Cross Akshayanagar from Akshayanagar main road to dead end								
	Ch: (0 - 68)		1	68	6.50	0.030	13.26		
	6th cross akshayanagara from Akshayanagar main road to dead end								
	Ch: (0 - 67)		1	67	6.50	0.030	13.07		
	7th Cross Akshayanagara from Akshayanagara Main road to dead end								
	Ch: (0 - 83)		1	83	6.50	0.030	16.19		
							98.58	**7270.54**	**716729.83**

Sl. No.	Description of item	Unit	Nos	Dimension			Total Qty	Rate in Rs	Amount in Rs
				L in m	B in m	D in m			
11	Lead for disposal of earth shall be payable at Carriage rates (Lead & Lift) by mechanical means including loading and unloading up to 7kms. .(Refer Table. Page No.140)								
		Cum.							
	Basic rate	*90.40*							
	Total Rate in Rs	*90.40*							
			For item no	2			286.80		
			For item no	4			886.00		
							1172.80	90.40	106021.12
									4180179.05
	Sub total-2								
	ROAD FURNITURES								
12	KSRRB M800-13. Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35. The finished surface to be level, uniform and free from streaks and holes complete as per specifications. MORTH Specification No. 803 (Page No 185, I.No.24.15 of KPWD S.R 2016-17).								
		Sqm							
	Basic rate	512.00							
	Area Wieght age @ 6%	*30.72*							
	Total Rate in Rs	*542.72*							
	Road Marking new contruction								
	Thirumalanagar main road from Akshayanagar main road to dead end								
	Ch: (0 - 110)		2	110	0.10		22.00		
	1st Cross road from thirumala nagar main road to dead end								
	Ch: (0 - 38)		2	38	0.10		7.60		
	2nd Cross akshayanagara from Akshayanagara main road to dead end								
	Ch: (0 - 67)		2	67	0.10		13.40		
	4th Cross Akshayanagara from Akshaynagara Main road to dead end								
	Ch: (0 - 67)		2	67	0.10		13.40		
	5th Cross Akshayanagar from Akshayanagar main road to dead end								
	Ch: (0 - 68)		2	68	0.10		13.60		
	6th cross akshayanagara from Akshayanagar main road to dead end								
	Ch: (0 - 67)		2	67	0.10		13.40		

Sl. No.	Description of item	Unit	Nos	Dimension			Total Qty	Rate in Rs	Amount in Rs
				L in m	B in m	D in m			
	7th Cross Akshayanagara from Akshayanagara Main road to dead end								
	Ch: (0 - 83)								
			2	83	0.10				
							16.60		
	Sub Total-3						100.00	542.72	54272.00
13	Cost towards Preperation of DPR,PMC/QC @1.5%								54272.00
14	**Cost of Plastic@ 8% of bitumen qty for BC**	Kg	1	1111.98					4494366.64 / 67415.50
15								27.00	30023.52
16	**Cost towards KIRDL Charges @ 9%**								404493.00
	Misclenous and other charges								3701.33
	Grand Total								5000000.00

Certificate:-

1. That the workspot has been inspected and provisions made in the estimate are adequate and necessary
2. Work spot comes with in the Bruhat Bangalore Mahanagara Palike Limits.
3. That estimate is based on the PWD SR of 2016-17
4. The work is not split up
5. These works are not taken up in any grants and free from defect liability period
6. Earlier improvements taken up in the proposed roads are recorded in road history

Consultancy
For M/s Mecadez core technologies pvt ltd

Asst. Engineer
Ward No:3
BBMP

AEE
yelahanka Sub division
BBMP

Executive Engineer
yelahanka division
BBMP

ADMINISTRATIVELY SANCTIONED FOR Rs. 50.00 lacs
Rupees fifty lacks only
Under P- 3089

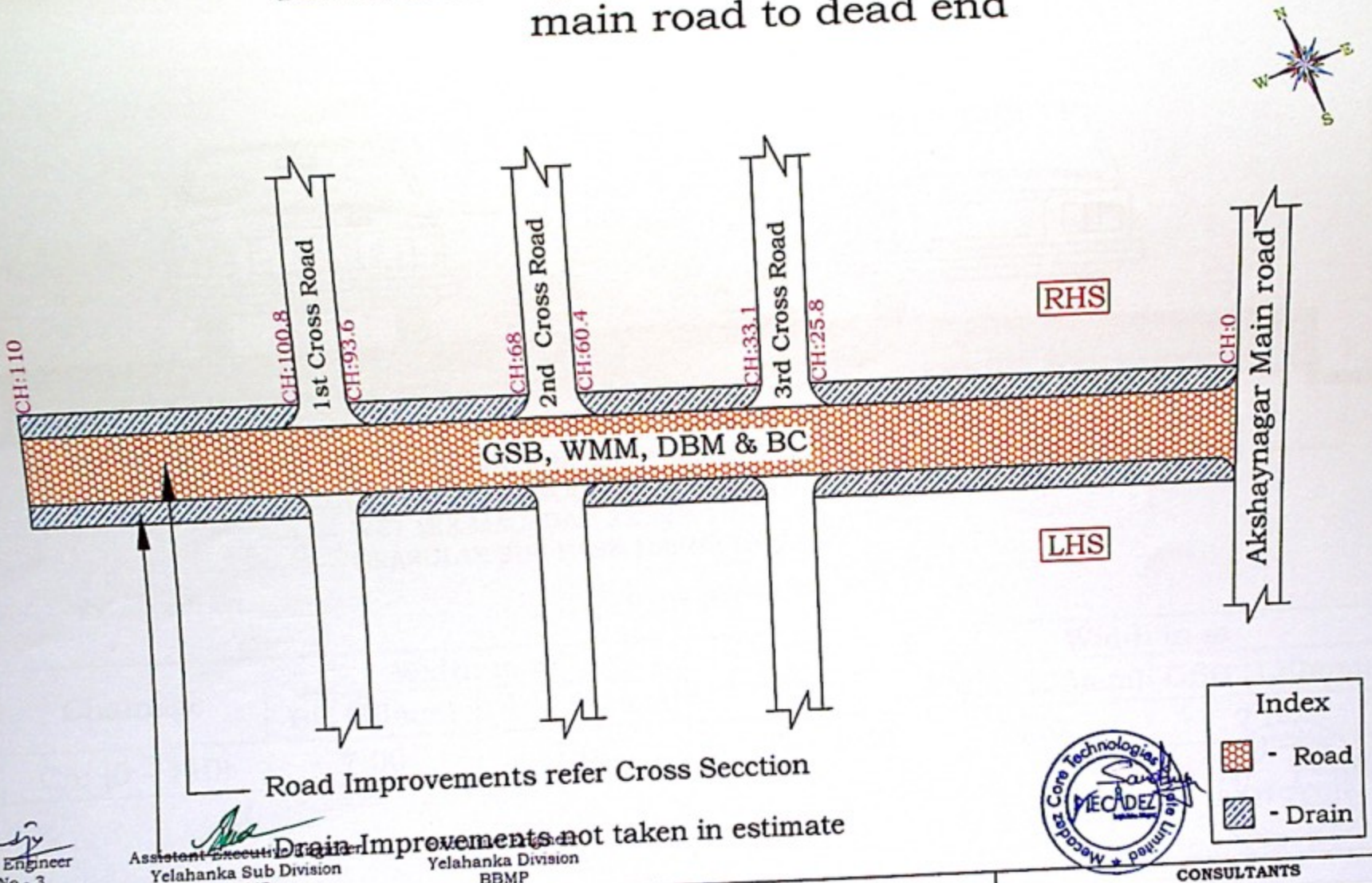
Registered as EE ( )
Subject to conditions contained in
enclosed memo EE ( ) No
Dt Estimate Administrative
Jclk/PA/TS/No 32/16
dated 12/3/2017 Rs 50.00 lacs

Joint Commissioner
(Yelahanka Zone)
BBMP Bangalore-92

Technical Sanction
Accorded for 50.00 lacks Rs
Head of A/c P3089
CER NO : 209 Dt:.. 24.3.17

TA, CE (YNK),

Thirumalanagar main road from Akshayanagar main road to dead end



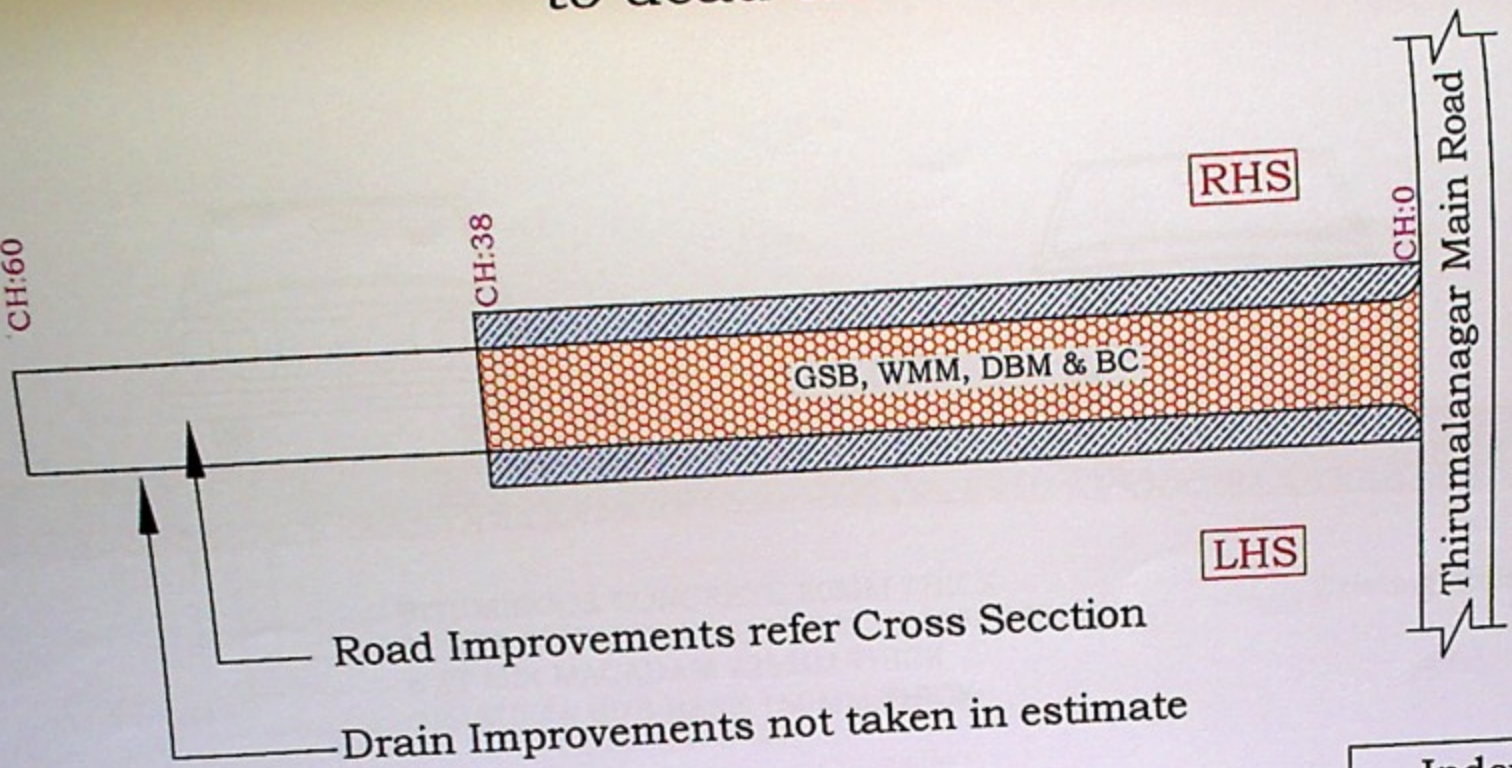
Assistant Engineer
Ward No - 3
BBMP

Assistant Executive Engineer
Yelahanka Sub Division
BBMP

Executive Engineer
Yelahanka Division
BBMP

PROJECT NAME	DRAWING TITLE		CONSULTANTS
Asphalting to Roads and improvements to drains in Akshayanagara 1st Main and 1st, 2nd, 3rd and 4th cross roads of Attur ward no.03	Strip Plan	BRUHAT BENGELURU MAHANAGARA PALIKE	M/s. Necadez Core Technologies Private Limited Project Management and Conultancy No.103, 1st Main Road, 3rd Cross, Magadi Main Road, Kottigepalya, Bangalore-560091.

1st Cross road from thirumala nagar main ...
to dead end



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- Drain

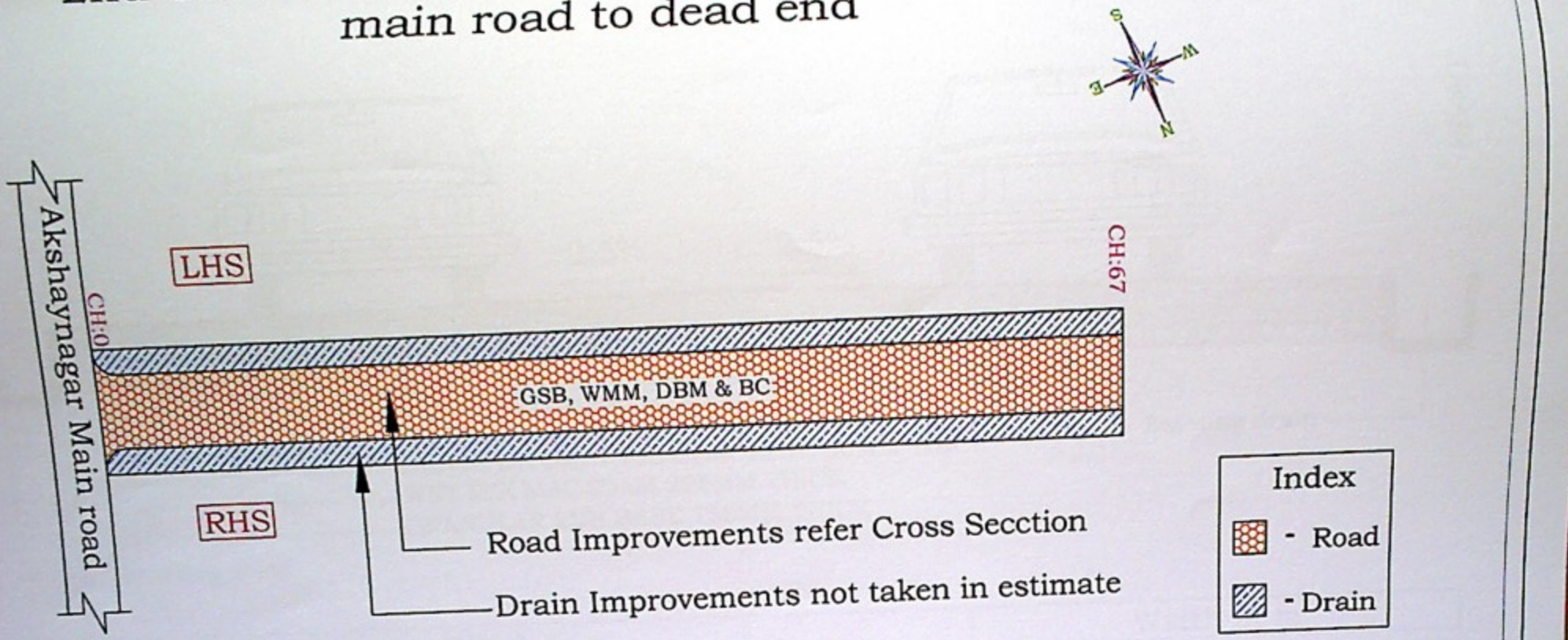
Assistant Engineer
Ward No - 3
BBMP

Assistant Executive Engineer
Yelahanka Sub Division
BBMP

Executive Engineer
Yelahanka Division
BBMP

PROJECT NAME	DRAWING TITLE		CONSULTANTS
Asphalting to Roads and improvements to drains in Akshayanagara 1st Main and 1st, 2nd, 3rd and 4th cross roads of Attur ward no.03	Strip Plan	BRUHAT BENGELURU MAHANAGARA PALIKE	M/s. Mecadez Core Technologies Private Limited Project Management and Conultancy No.103, 1st Main Road, 3rd Cross, Magadi Main Road, Kottigepalya, Bangalore-560091.

2nd Cross akshayanagara from Akshayanagara main road to dead end



Assistant Engineer
Ward No - 3
BBMP

Assistant Executive Engineer
Yelahanka Sub Division
BBMP

Executive Engineer
Yelahanka Division
BBMP

Mecadez Core Technologies Private Limited
MECADEZ

PROJECT NAME	DRAWING TITLE		CONSULTANTS
Asphalting to Roads and improvements to drains in Akshayanagara 1st Main and 1st, 2nd, 3rd and 4th cross roads of Attur ward no.03	Strip Plan	BRUHAT BENGELURU MAHANAGARA PALIKE	M/s. Mecadez Core Technologies Private Limited Project Management and Conultancy No.103, 1st Main Road, 3rd Cruss, Magadi Main Road, Kottigepalya, Bangalore-560091